

EMERGENCY RESPONSE INFORMATION SHEET

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UN1593

P.C. 55590 METHYLENE CHLORIDE TECH

COMPOSITION:

FORM: WATER-WHITE LIQUID	FLASH POINT: NONE/TCC
SPEC GRAVITY: 1.320 @ 25/25C	FLAM LIMITS: 14.8 - 22% @ 25C
SOL IN WATER: DOES NOT MIX	VAPOR HAZ: HARMFUL
FREEZE POINT: -142.6°F	REACTS WITH: ALUMINUM, MAGNESIUM OR
BOILING PT: 104°F	THEIR ALLOYS AND POT METAL.

HEALTH HAZARDS

EYES: PAIN. MODERATE IRRITATION. SLIGHT BURN.
SKIN: PROLONGED CONTACT: MODERATE IRRITATION. IF CONFINED, SLIGHT BURN.
INHALATION: MAY CAUSE DROWSINESS & UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

ANIMAL: AVOID INGESTION & EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

IN CASE OF ACCIDENT

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VAPOR HARMFUL. KEEP UPWIND. ISOLATE AREA & DENY ENTRY. AVOID CONTACT WITH EYES, SKIN & CLOTHING. AVOID BREATHING VAPORS. USE WATER SPRAY TO REDUCE VAPOR. VAPOR/AIR MIXTURE MAY BE FLAMMABLE. NO SMOKING, FLARES, OR OPEN FLAMES. SHUT OFF IGNITION. STOP LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND & SHOVEL INTO SUITABLE CONTAINERS. DIKE LARGER SPILLS & RECOVER. AVOID ENTRY INTO SEWERS &/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING, & SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER & AUTHORITIES.

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VAPOR HARMFUL. WILL BURN BUT DOES NOT IGNITE EASILY. VAPOR/AIR MIXTURE MAY BE FLAMMABLE. MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD. COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO₂.
LARGE FIRES: USE WATER SPRAY, FOG, OR FOAM. DIKE LIQUID RUN-OFF. AVOID ENTRY INTO SEWERS &/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING & SELF-CONTAINED BREATHING APPARATUS.

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EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY & CONTINUOUSLY FOR 15 MIN. CONSULT MEDICAL PERSONNEL.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
CLOTHING: REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

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TRANSPORTATION EQUIPMENT DATA

- EMERGENCY DATA
ON OTHER SIDE -

PRODUCT METHYLENE CHLORIDE, TECH.		CODE NO. 55590	DATE ISSUED OR REVISED JAN 14 1983
SYNONYM: DICHLOROMETHANE		TYPE COMMODITY SOLVENT	
CHARACTERISTICS	DOT SHIPPING NAME --		DOT HAZARD CLASS --
	FLASH POINT NONE	FLAMMABLE LIMITS 14.8 - 22% @ 25C	BOILING POINT 104°F
	FREEZING POINT -142.6°F	LOADING TEMP. AMBIENT	MAX. PRODUCT TEMP. --
	WT/GAL @ 77°F (25°C) 11.0	CONCENTRATION SHIPPED FULL STRENGTH	SOLUBILITY IN WATER DOES NOT MIX
			VAPOR DENSITY (AIR = 1) 2.93
		MAX. STEAM PRESSURE --	PHYSICAL STATE LIQUID

APPROVED EQUIPMENT:

TANK TRUCK

TANK CAR

TANK TYPE:	MC 303(1), 304(2), 306(1), 307(2), 311, 312, NON-ALUMINUM	DOT 103W, 111A60W1, 111A100W1
TANK MATERIALS:	STAINLESS STEEL	CARBON STEEL LINED STEEL
INSULATION:	NOT REQUIRED	NOT REQUIRED
STEAMCOILS:	NOT REQUIRED	NOT REQUIRED
METHOD USED TO CLEAN TANK:	DRAIN, FLUSH WITH WATER, STEAM, RINSE WITH WATER AND DRY.	
PUMP TYPES:	STAINLESS STEEL, CARBON STEEL CENTRIFUGAL OR POSITIVE DISPLACEMENT	
HOSE TYPES:	SEAMLESS STAINLESS STEEL, TEFLON, SEAMLESS BRONZE, SEAMLESS STEEL, CROSS LINKED P/E (3), VITON (3) (UNIROYAL, GOODYEAR)	
GASKETS:	ASBESTOS, TEFLON, VITON, NEOPRENE LEATHER (SINGLE USE ONLY)	
OTHER:	PREVENT CONTACT WITH ALUMINUM, MAGNESIUM AND POT METALS OR THEIR ALLOYS. (1) MUST BE EQUIPPED WITH PRESSURE HATCH - 25 PSIG MIN. (2) PREFERRED EQUIPMENT	

HANDLING:

TEXAS DIVISION REQUIRES UNITS EQUIPPED WITH VENT FOR CLOSED LOADING WHICH CAN BE OPERATED FROM GROUND LEVEL.

HOW UNLOADED:	PUMP, DRY NITROGEN OR GRAVITY (PRESSURE NOT APPROVED FOR MC 303 & 306 TANKS)
PROBLEMS:	VAPOR HARMFUL. AVOID BREATHING VAPORS. AVOID CONTACT WITH EYES, SKIN & CLOTHING.
PRECAUTIONS:	USE PROTECTIVE EQUIPMENT--MINIMUM OF CHEMICAL WORKERS GOGGLES, HARD HAT, RUBBER GLOVES & RUBBER BOOTS. HAVE RESPIRATOR AVAILABLE.
OTHER:	(3) MAY BE USED ONLY FOR INTERMITTENT SERVICE. DO NOT USE IN PERMANENT INSTALLATIONS. IF HOSE IS FLUSHED BEFORE SHIPMENT, IT MUST BE DRIED PRIOR TO SHIPMENT. VAPOR/AIR MIXTURES MAY BE FLAMMABLE UNDER CERTAIN CONDITIONS.

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SECTION VI Reactivity Data

Conditions to avoid: Elevated temperatures.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Aldehydes.

Hazardous Polymerization: Will not occur.

Conditions to avoid: Strong acids or bases in bulk.

SECTION VII Spill or Leak Procedures

Spill Procedures: Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

Waste Disposal Methods: Dispose in accordance with Federal, State and local regulations.

SECTION VIII Special Protection Information

Ventilation: Good general mechanical ventilation and local exhaust.

Protective gloves: Wear impervious gloves.

Eye protection: Wear splash-proof chemical goggles.

Respiratory protection: Organic chemical cartridge respirator, if needed.

Other protective equipment: Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.

SECTION IX Special Precautions

Handling, Shipping and storing precautions: CAUTION! May cause irritation, Dermatitis and sensitization.

Avoid contact with eyes, skin or clothing.

Avoid breathing vapor, mist or spray.

Store in cool, dry area in closed containers.

Wash after handling.

SECTION X Regulatory Information

Dot class: Not regulated

The information contained herein is based on data believed to be accurate by RCV INDUSTRIES, but we do not assume any liability for the accuracy of the information. We neither suggest nor guarantee that any hazards mentioned are the only ones that exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy themselves that they can meet all applicable safety and health standards. Determination of the suitability of any information or product for the use contemplated by any user, the manner of that use and whether there is any infringement of patents is the sole responsibility of the user.

MATERIAL SAFETY DATA SHEET

SECTION I Company Identification and covered products

Manufactures name, address and phone number

RCV INDUSTRIES
P.O. Box 2539
Canyon Country, CA 91351-7539
805-251-9986 (For All Information)

Prepared: 9/1/86

<u>Identity:</u>	<u>Chemical Name, Chemical Family and Synonyms</u>	<u>Tradenames</u>
	Epoxy Resin Formulated Liquid Epoxy	Qualitool 214 Resin

SECTION II Hazardous Ingredients

C12 and C14 Alkyl Glycidyl Ethers
TLV: Not Established

Bisphenol A Diglycidyl Ether Resin
TLV: Not Established

SECTION III Physical/Chemical Characteristics

Appearance: Clear, colorless to pale yellow liquid

Percent Volatile: Nil

Solubility in water: Nil

Specific Gravity: CA. 1.1 (H2O = 1)

SECTION IV Fire and Explosion Data

Flash Point: >200F closed cup

Extinguishing media: Carbon Dioxide, foam, dry chemical, water spray.

Fire Fighting Procedures - special: Use self-contained breathing apparatus.

Unusual fire and explosion hazards: Decomposition and combustion products may be toxic.

SECTION V Health Hazard Data

Overexposure effects: Irritation, sensitization and dermatitis.

Emergency and first aid procedures - eyes: Immediately flush eyes with water for at least 15 minutes. Call a physician.

Emergency and first aid procedures - skin: Promptly wash with mild soap and water.

Emergency and first aid procedures - ingestion: If conscious, give large quantities of water. Induce vomiting. Call a physician.

Emergency and first aid procedures - inhalation: Remove to fresh air. Give oxygen if breathing is difficult.

Emergency and first aid procedures - other: Promptly remove wet contaminated non-impervious clothing. Wash before reuse.